

IN THE CLAIMS

1. (Currently Amended) A method for compressing the representation of a sequence of points in a space, the method comprising:

dividing a sequence of points into segments of successive points;

determining a compression size for each of the segments, wherein the compression size varies based on information in each segment; and

compressing each of the segments into the compression size for each segment.
~~irrespective of the compression applied to the other segments.~~

2. (Original) The method of claim 1, wherein the step of dividing comprises

dividing a sequence of points into segments of S successive points.

3. (Original) The method of claim 1, wherein before the step of dividing, the following step is performed:

determining the value of S.

4. (Currently Amended) The method of claim 3, wherein the step of determining the value of S comprises

generating multiple compressions of the sequence, each of the multiple compressions at a different value of S.

5. (Currently Amended) The method of claim 3, wherein the step of determining the value of S comprises

generating a compression of the sequence for each value of S from a minimum to a maximum.

6. (Currently Amended) The method of claim 3, wherein the step of determining the value of S comprises

generating a compression of the sequence for each value of S from a minimum of two (2) to a maximum equal to the number of points in the sequence.

7. (Currently Amended) The method of claim 3, wherein the step of determining the value of S comprises

generating multiple compressions of the sequence, each of the multiple compressions at a different value of S; and

determining the value of S to be the value of S generating the smallest of the multiple compressions.

8. (Currently Amended) The method of claim 1, wherein the step of ~~compression~~ compressing comprises

compressing each of the segments of S successive, i-bit points into segments of j-bit points, where $j \leq i$.

9. (Original) The method of claim 8, wherein the value of j may vary from segment to segment.

10. (Original) The method of claim 8, wherein, for any given segment, j is the minimum number of bits necessary to represent the data in that given segment.

11. (Original) The method of claim 1, wherein the step of compressing comprises

determining the largest coordinate in any dimension of any point in a segment;

setting j for the segment to the ceiling of the base-2 log of that largest coordinate;

and

truncating from points of the segment most significant bits exceeding j bits.

12. (Currently Amended) The method of claim 1, wherein the sequence of points in is an electronic signature.

13. (Original) The method of claim 1, wherein the step of compressing comprises
compressing each of the segments without losing any of the data in any of the
segments.
14. (Original) The method of claim 1, wherein the step of compressing comprises
compressing each of the segments, losing data as directed by an invoking user.
15. (Original) The method of claim 1, wherein before the step of dividing the following step is
performed:
converting DrawTo data to relative-movement data.
16. (Original) A method for compressing an electronic signature, the method comprising:
dividing an electronic signature comprising a sequence of i-bit points into
segments of successive points numbering S;
compressing each of the segments into segments of j-bit points without losing any
of the data in the signature by
determining the largest coordinate in any dimension of any point in a
segment;
setting j for the segment to the ceiling of the base-2 log of that largest
coordinate; and
truncating from points of the segment most significant bits exceeding j
bits.
17. (Original) The method of claim 16, wherein before the step of dividing, the following steps
are performed:
converting DrawTo data to relative-movement data;
generating multiple compressions of the sequence, each of the multiple
compressions at a different value of S; and
determining the value of S to be the value of S generating the smallest of the

multiple compressions.

18. (Currently Amended) A data store wherein is located a computer program for compressing the representation of a sequence of points in a space by:

dividing a sequence of points into segments of successive points;

determining a compression size for each of the segments, wherein the compression size varies based on information in each segment; and

compressing each of the segments into the compression size for each segment
~~irrespective of the compression applied to the other segments.~~

19. (Original) A data store wherein is located a computer program for compressing an electronic signature by:

dividing an electronic signature comprising a sequence of i-bit points into segments of successive points numbering S;

compressing each of the segments into segments of j-bit points without losing any of the data in the signature by

determining the largest coordinate in any dimension of any points in a segments;

setting j for the segment to the ceiling of the base-2 log of that largest coordinate; and

truncating from points of the segment most significant bits exceeding j bits.

20. (Original) The data store of claim 19, wherein the computer program compresses an electronic signature by, before the step of dividing:

converting DrawTo data to relative-movement data;

generating multiple compressions of the sequence, each of the multiple compressions at a different value of S; and

determining the value of S to be the value of S generating the smallest of the

multiple compressions.

21. (Currently Amended) A compressor for compressing the representation of a sequence of points in a space, comprising:

~~the data store of claim 18;~~

a data store wherein is located a computer program for compressing the representation of the sequence of points in the space by:

dividing the sequence of points into segments of successive points;

determining a compression size for each of the segments, wherein the compression size varies based on information in each segment;

compressing each of the segments into the compression size for each segment;

a CPU for executing the computer program in the data store; and

a link, communicatively coupling the data store and the CPU.

22. (Currently Amended) A compressor for compressing an electronic signature, comprising:

~~the data store of claim 19;~~

a data store wherein is located a computer program for compressing an electronic signature by:

dividing an electronic signature comprising a sequence of i-bit points into segments of successive points numbering S;

compressing each of the segments into segments of j-bit points without losing any of the data in the signature by

determining the largest coordinate in any dimension of any point in a segment;

setting j for the segment to the ceiling of the base-2 log of that largest coordinate; and

truncating from points of the segment most significant bits exceeding j bits;

a CPU for executing the computer program in the data store; and
a link, communicatively coupling the data store and the CPU.